

**PSEUDO-RANDOM NUMBER GENERATOR**

**Abstract of the Disclosure**

A pseudo-random number generator includes a first generator for producing a sawtooth waveform signal having a first frequency, and a second generator for producing a pulse signal having a second frequency. A  
5 sampling circuit samples the sawtooth waveform signal and the pulse signal for generating a sample signal of the sawtooth waveform signal at the second frequency. A coding circuit codes the amplitude of the sample signal to supply binary values. The pseudo-random  
10 number generator has applications in integrated circuits which are used in contact type or contactless IC cards.

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